

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/368,776ADATE: 11/07/96
TIME: 22:03:48

INPUT SET: S13618.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

ENTERED

(1) General Information:

(i) APPLICANT: Ciossek, Thomas
Ullrich, Axel
Millauer, Birgit

(ii) TITLE OF INVENTION: METHODS FOR DIAGNOSIS
AND TREATMENT OF MDK1
SIGNAL TRANSDUCTION
DISORDERS

(iii) NUMBER OF SEQUENCES: 12

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Lyon & Lyon
(B) STREET: 633 West Fifth Street
Suite 4700
(C) CITY: Los Angeles
(D) STATE: California
(E) COUNTRY: U.S.A.
(F) ZIP: 90071-2066

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
storage
(B) COMPUTER: IBM Compatible
(C) OPERATING SYSTEM: IBM P.C. DOS 5.0
(D) SOFTWARE: Word Perfect 5.1

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 08/368,776
(B) FILING DATE: January 3, 1995
(C) CLASSIFICATION:

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/368,776ADATE: 11/07/96
TIME: 22:03:21

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47

48

49 (vii) PRIOR APPLICATION DATA:

50

51 Prior applications total,
52 including application
53 described below: none

54

55

56 (A) APPLICATION NUMBER:

57 (B) FILING DATE:

58

59

60 (viii) ATTORNEY/AGENT INFORMATION:

61

62 (A) NAME: Warburg, Richard J.

63 (B) REGISTRATION NUMBER: 32,327

64 (C) REFERENCE/DOCKET NUMBER: 208/007

65

66

67 (ix) TELECOMMUNICATION INFORMATION:

68

69 (A) TELEPHONE: (213) 489-1600

70 (B) TELEFAX: (213) 955-0440

71 (C) TELEX: 67-3510

72

73

74 (2) INFORMATION FOR SEQ ID NO: 1:

75

76 (i) SEQUENCE CHARACTERISTICS:

77

78 (A) LENGTH: 4304 base pairs

79 (B) TYPE: nucleic acid

80 (C) STRANDEDNESS: single

81 (D) TOPOLOGY: linear

82

83 (ii) MOLECULE TYPE: nucleic

84

85 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

86

87 AAGCGGCCGG TCTGCAGTCG GAGACTTGCA GGCAGCAAAC ACGGTGCGAA 50

88

89 CGAACCGGAG GGGGGAGAGA GAAATCAAAC AGCTAAGCGT GGAGCAGACG 100

90

91 GCCTGGGACC CAGAAGGGGA TCGATGCGAG GAGCGCAATA ATAACAACAA 150

92

93 TAATAACCCA CTTCCGGAGCA AACAGCATCT AAAGAGCTGC GACCCAACTG 200

94

95 CAGCCTAAAA AAATCAAACC TGCTCATGCA CCATGGTTGT TCAAACTCGG 250

96

97 TTCCCTTCGT GGATTATTTT GTGTTACATC TGGCTGCTTG GCTTTGCACA 300

98

99 CACGGGGGAG GCGCAGGCTG CGAAGGAAGT ACTATTACTG GACTCGAAAG 350

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TIME: 22:03:24

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100						
101	CACAACAAAC	AGAATTGGAA	TGGATTTTCCT	CTCCACCCAG	TGGGTGGGAA	400
102						
103	GAAATTAGTG	GTTTGGATGA	GAAC TACACT	CCGATAAGAA	CATACCAGGT	450
104						
105	GTGCCAGGTC	ATGGAGCCCA	ACCAGAACAA	CTGGCTGCGG	ACTAACTGGA	500
106						
107	TTTCTAAAGG	CAACGCACAA	AGGATTTTTG	TAGAATTGAA	ATTCACCTTG	550
108						
109	AGGGATTGTA	ATAGTCTTCC	CGGAGTCCTG	GGAAC TTGCA	AGGAAACGTT	600
110						
111	TAATTTGTAC	TATTATGAAA	CAGACTACGA	CACCGGCAGG	AATATACGAG	650
112						
113	AAAACCTTTA	TGTTAAAATA	GACACCATTG	CTGCAGATGA	AAGTTTCACA	700
114						
115	CAAGGTGACC	TTGGTGAAAAG	AAAGATGAAG	CTGAACACTG	AGGTGAGAGA	750
116						
117	GATTGGACCT	TTGTCCAAAA	AGGGATTCTA	TCTTGCCTTT	CAGGATGTAG	800
118						
119	GGGCTTG CAT	AGCATTGGTT	TCTGTCAAAG	TGTACTACAA	GAAGTGCTGG	850
120						
121	ACCATTGTTG	AGAACTTAGC	TGTCTTTCCA	GATACAGTGA	CTGGTTCGGA	900
122						
123	ATTTTCCTCC	TTAGTCGAGG	TCCGTGGGAC	ATGTGTCAGC	AGTGCCGAGG	950
124						
125	AAGAGGCAGA	AAATTCCCCC	AGAATGCATT	GCAGTGCAGA	AGGAGAGTGG	1000
126						
127	CTAGTACCCA	TTGGAAAATG	CATCTGCAAA	GCAGGCTATC	AGCAAAAAGG	1050
128						
129	GGACACTTGC	GAACCCTGTG	GCCGCAGGTT	CTACAAATCT	TCCTCTCAGG	1100
130						
131	ATCTCCAGTG	TTCTCGTTGT	CCAACCCACA	GCTTCTCTGA	CCGAGAAGGA	1150
132						
133	TCATCCAGGT	GTGAATGTGA	AGATGGGTAC	TACAGAGCTC	CTTCTGATCC	1200
134						
135	ACCATACGTT	GCATGCACGA	GGCCTCCCTC	TGCACCACAG	AACCTTATTT	1250
136						
137	TCAATATCAA	TCAAACGACT	GTAAGTTTGG	AATGGAGTCC	TCCGGCTGAC	1300
138						
139	AACGGGGGAA	GAAACGATGT	CACCTACAGA	ATACTGTGTA	AGCGGTGCAG	1350
140						
141	TTGGGAACAG	GGAGAATGTG	TGCCATGCGG	AAGTAACATT	GGATACATGC	1400
142						
143	CCCAGCAGAC	GGGATTAGAG	GATAACTATG	TCACTGTCAT	GGACCTACTT	1450
144						
145	GCCCATGCAA	ATTACACTTT	CGAAGTTGAA	GCTGTAAATG	GAGTTTCGGA	1500
146						
147	CTTAAGCAGA	TCCCAGAGGC	TCTTCGCTGC	TGTTAGCATC	ACCACCGGTC	1550
148						
149	AAGCAGCTCC	CTCGCAAGTG	AGTGGAGTCA	TGAAGGAGCG	AGTACTGCAG	1600
150						
151	CGGAGTGTGC	AGCTTTCCTG	GCAGGAGCCG	GAGCATCCCA	ATGGAGTCAT	1650
152						

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153	CACGGAATAT	GAAATCAAGT	ATTATGAGAA	AGATCAACGG	GAAAGGACGT	1700
154						
155	ACTCAACACT	CAAAACCAAG	TCCACCTCCG	CCTCCATTAA	TAATCTGAAA	1750
156						
157	CCGGGAACAG	TGTACGTCTT	TCAGATCCGG	GCGGTCAC TG	CTGCCGGTTA	1800
158						
159	TGGAAACTAC	AGCCCTAGGC	TTGATGTTGC	CACACTTGAG	GAAGCTTCAG	1850
160						
161	GTAAAATGTT	TGAAGCGACA	GCAGTCTCCA	GTGAACAGAA	TCCTGTCATC	1900
162						
163	ATAATTGCTG	TAGTGGCTGT	AGCAGGGACC	ATCATCTTGG	TGTTTCATGGT	1950
164						
165	GTTTCGGCTTC	ATCATTGGAA	GAAGGCACTG	TGGTTATAGC	AAGGCTGACC	2000
166						
167	AAGAAGGGGA	TGAAGAACTC	TACTTTTCATT	TTAAATTTCC	AGGCACCAAA	2050
168						
169	ACCTACATTG	ACCCTGAAAC	CTATGAGGAC	CCAAATAGAG	CTGTCCATCA	2100
170						
171	ATTGCGCCAAG	GAGCTAGATG	CCTCCTGTAT	TAAAATTGAG	CGTGTGATTG	2150
172						
173	GTGCAGGAGA	ATTTGGAGAA	GTTTGCAGTG	GTCGTTTGAA	ACTTCCGGGC	2200
174						
175	CAGAGAGATG	TTGCAGTGGC	CATAAAAACC	CTGAAAGTTG	GTTACACAGA	2250
176						
177	AAAGCAAAGG	AGGGACTTTT	TATGCGAAGC	AAGCATCATG	GGGCAATTTG	2300
178						
179	ACCACCCAAA	TGTCGTCCAT	TTGGAAGGGG	TTGTTACAAG	AGGGAAGCCT	2350
180						
181	GTCATGATTG	TGATAGAGTT	CATGGAGAAT	GGAGCCCTGG	ATGCATTTCT	2400
182						
183	CAGGAAACAC	GATGGGCAGT	TTACAGTCAT	TCAGTTGGTA	GGAATGTTGA	2450
184						
185	GAGGTATTGC	CGCTGGGATG	CGATACTTGG	CTGATATGGG	ATACGTTTAC	2500
186						
187	AGGGACCTTG	CAGCGCGCAA	CATCCTTGTC	AACAGCAATC	TTGTTTGTAA	2550
188						
189	AGTGTCAGAT	TTTGGCCTTT	CCCGGGTTAT	AGAGGATGAT	CCCGAAGCTG	2600
190						
191	TCTACACCAC	GA CTGGTGGA	AAAATTCCAG	TAAGGTGGAC	TGCACCGGAA	2650
192						
193	GCCATTCAAT	ACCGGAAGTT	CACCTCAGCC	AGCGATGTGT	GGAGCTATGG	2700
194						
195	GATTGTCATG	TGGGAAGTGA	TGTCTTATGG	AGAAAGACCT	TACTGGGACA	2750
196						
197	TGTCAAATCA	AGATGTCATT	AAAGCGATAG	AAGAAGGTTA	TCGTTTGCCG	2800
198						
199	GCGCCCATGG	ATTGCCCAGC	TGGTCTTCAC	CAGCTAATGC	TGGATTGTTG	2850
200						
201	GCAGAAAGAT	CGGGCGGAAA	GGCCAAAGTT	TGAGCAGATA	GTCGGAATTC	2900
202						
203	TAGACAAAAT	GATTTCGAAAC	CCAAGTAGTC	TGAAAACACC	CCTGGGAACT	2950
204						
205	TGTAGTAGAC	CCTTAAGCCC	TCTTCTGGAC	CAGAGCACTC	CTGACTTCAC	3000

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206						
207	TGCCTTCTGT	TCAGTTGGAG	AATGGTTGCA	AGCTATTAAA	ATGGAAAGGT	3050
208						
209	ATAAGGACAA	CTTCACAGCA	GCGGGTTACA	ACTCACTCGA	GTCAGTGGCC	3100
210						
211	AGGATGACTA	TCGATGATGT	GATGAGTTTA	GGGATCACAC	TGGTTGGCCA	3150
212						
213	TCAAAAGAAG	ATCATGAGCA	GCATCCAGAC	TATGCGGGCA	CAAATGTTGC	3200
214						
215	ATTTACACGG	AACAGGCATC	CAAGTGTGAC	ACATCGGCCT	CCCTCAGATG	3250
216						
217	AGGCTTAAGA	CTGCAGGAGA	ACAGTTCTGG	CCTTCAGTAT	ACGCATAGAA	3300
218						
219	TGCTGCTAGA	AGACAGTTGA	TATACTGGGT	CCTTCCTACA	AGAAAGAGAA	3350
220						
221	GATTTTAGAA	GCACCTCCAG	ACTTGAAGTC	CTAAGTGCCA	CCAGAATATA	3400
222						
223	CAAAAAGGGA	ATTTAGGATC	CACCACTGGT	GGCCAGGAAC	ACAGCAGAGA	3450
224						
225	CAATAAACAA	AGTACTACCT	GAAAAACATC	CCAACACCTT	GAGCTCTCGA	3500
226						
227	ACCTCCTTTT	TATCTTATAG	ACTTTTTTAA	AATGTACATA	AAGAATTTAA	3550
228						
229	GAAAGAATAT	ATTTGTCAAA	TAAAAATCAT	GATCTTATTG	TTAAAAATCA	3600
230						
231	TGAAATATTT	TCCTTAAAT	ATGTGATTC	AGACTATTCT	TTTCCAGAAC	3650
232						
233	CATCTGTGTT	TATTCTGCTT	AAGGACTTTG	TTTTAGAAAG	TTATTTGTAG	3700
234						
235	CTTTGGACCT	TTTTAGTGTT	AAATTTATGA	CACGTACTA	CACTGGGAAC	3750
236						
237	CTTTGAAGAC	TCTCAAACTT	AAAGGAAAAG	AAACTACGC	ACATAGTCGA	3800
238						
239	GGATGGACTT	TGTCCTTCAT	GGCTTTGGTA	TCCTGGCTGT	GTCATTTTGT	3850
240						
241	TAAACCAGTG	ATGTTTTTCAT	ATTGTTTGCT	GATTGGCAGG	TAGTTCAAAA	3900
242						
243	TTGCAAGTTG	CCAAGAGCTC	TGATATTTTT	TAACAGGATT	TTTTTTTCTT	3950
244						
245	TGTAAAAATC	AGATAACATA	CTAACTTTTC	AATGAAAAAA	AAAAAAAAAAG	4000
246						
247	AAGCAATAAT	GATCCATAAA	TACTATAAGG	CACTTTTAAC	AGATTGTTTA	4050
248						
249	TAGAGTGATT	TACTAGGCAG	AATTTAATAA	AAAAAAAAAGA	GAGATGTCAA	4100
250						
251	ATTTTAGGTT	TATGTGTATA	TGATAAAAGG	CTGAGCTTCG	TCTGAAGATG	4150
252						
253	CTGGTGAAAG	CAAGACTGGA	AGCGAAGCTC	TCCAGCTTTG	GCTAACCCAA	4200
254						
255	TCCGAGCACA	TCAAGAGCTT	CAGTCTTG TG	ACAGTAAGAA	ATTTAGGAAC	4250
256						
257	ATAGTTGACC	TATATTTTGT	ATTCTTTCTT	GTTGAATGCA	GTCCAAATAC	4300
258						